

NASA's Lander Technologies Project

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Encourage development of robotic lunar landers

**Lunar
Cargo
Transportation
and Landing
by Soft
Touchdown**

- Can be integrated with US Commercial launch capabilities
- Deliver payloads to lunar surface
- International Partnerships

Lunar CATALYST

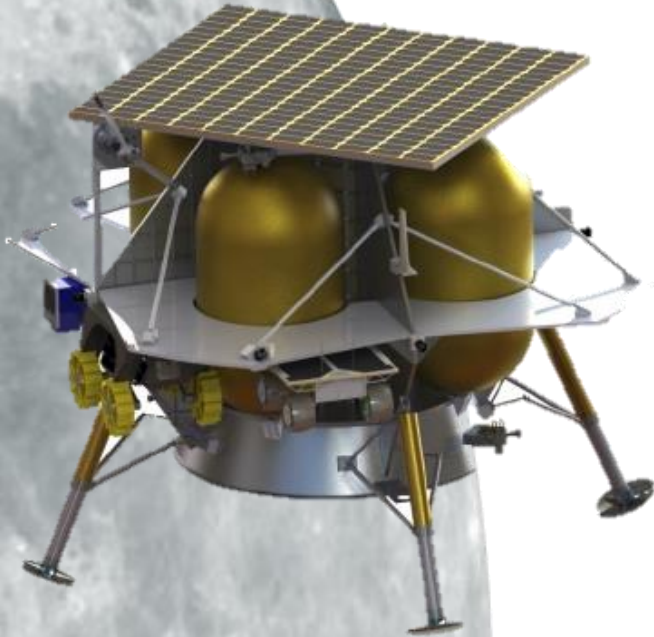


**Encouraging
development
of robotic
landers for
lunar surface
payload
delivery**

- Astrobotic Technology
- Masten Space Systems
- Moon Express

Lunar CATALYST Partners

Peregrine Lander

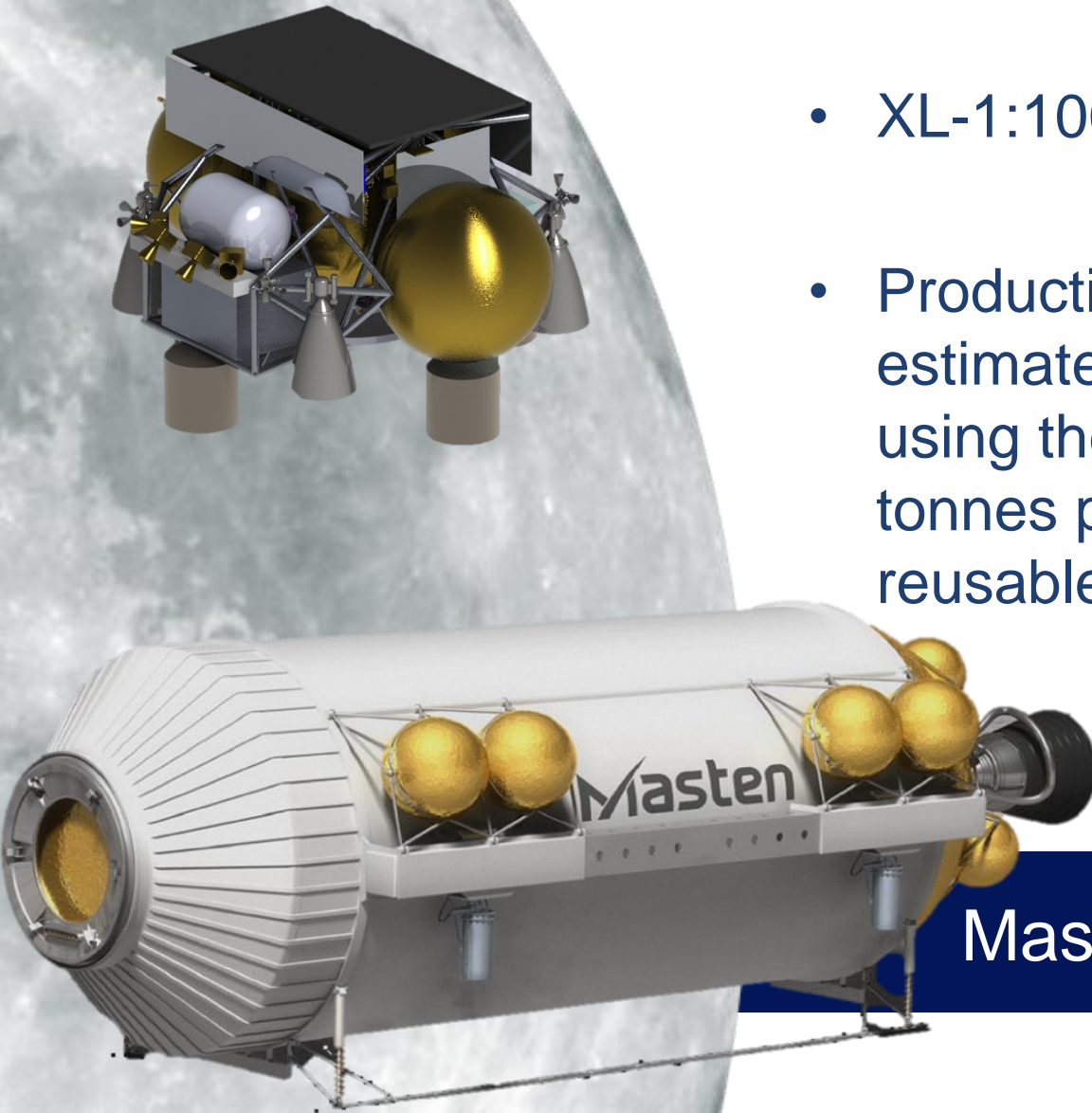


- 35 kg payload mass capacity
- 10 payload delivery contracts in place for the first mission to the moon

Astrobotic Technologies

XL and XEUS Family Concepts

- XL-1: 100-kg payload capacity
- Production Xeus: 10 tonnes estimated payload capacity when using the expendable version or 5 tonnes payload when using the reusable version.



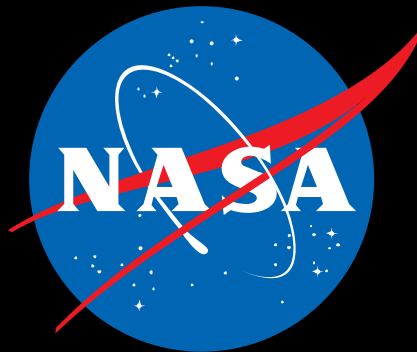
Masten Space Systems

MX-1E



- First vehicle planned to launch on the Rocket Lab Electron rocket
- Long term goal of developing lunar resources

Moon Express



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